

Quiz #3 -- PHYSICS

1. Which gas law best explains diving medical problems such as ear and sinus squeeze?
 - a. Water density
 - b. Charles Law
 - c. Henry's Law
 - d. Boyle's Law
2. Sea water weighs
 - a. 14.7 pounds per square foot
 - b. 64 pounds per cubic foot
 - c. .0445 pounds per cubic foot
 - d. 62.4 pounds per cubic foot
3. Air is approximately _____ Oxygen and _____ Nitrogen.
 - a. 36% and 74%
 - b. 60% and 40%
 - c. 32% and 67%
 - d. 21% and 79%
4. Salt water is _____ dense and therefore provides _____ buoyancy than fresh water.
 - a. Less, more
 - b. More, more
 - c. Less, less
 - d. More, less
5. Ambient pressure at 99 feet is _____.
 - a. 44.1 psi
 - b. 3 Atm
 - c. 4 Atm
 - d. 1021 millibars
6. Objects appear approximately _____ closer underwater due to _____.
 - a. 1/3, refraction
 - b. 1/4, reflection
 - c. 33%, absorption
 - d. 33%, reflection
7. Water carries away body heat approximately _____ times faster than air.
 - a. 10
 - b. 15
 - c. 25
 - d. 50

8. Because of the absorption of light rays as they pass through water, we first notice the disappearance of _____.
- Yellow
 - Blue
 - Violet
 - Red
9. The volume of a balloon at the surface is 20 cubic feet. The volume of this balloon at 66 feet is _____ cubic feet.
- 20
 - 18.2
 - 6.66
 - 5.4
10. Sounds travels _____ times _____.
- 3, faster
 - 4, faster
 - 4, slower
 - 3, slower